

Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

George Simpson 1 Incline AUM Site

Navajo AUM Northern Region

Prepared by:

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Contract: W91238-06-F-0083

12767.063.496.1111

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Part I Site Identification, Location and Status**Site Names and ID numbers as applicable****Mine ID:** 625**Map ID:** N47**CERCLIS:** NNN000909029**Navajo Abandoned Mine Land Reclamation Program:** NA-0910**Local name / Aliases:** George Simpson Incline; George Simpson #1 Incline; George Simpson #1A**Chapter and local area:** Sweetwater Chapter**County:** Apache **State:** Arizona**Lat/Long:** 36.87326373 N / -109.29585432 W**Nearby road and highway:** Highway 160 **Local Post Office:** Teec Nos Pos**Surface Land Status: check one or more and provide ownership and contact information below**

Tribal Trust Land	<input checked="" type="checkbox"/>	Public lands	<input type="checkbox"/>
Private	<input type="checkbox"/>	Tribal Fee Land	<input type="checkbox"/>
Bureau of Land Mgmt	<input type="checkbox"/>	Allotment	<input type="checkbox"/>
State	<input type="checkbox"/>	Fee land	<input type="checkbox"/>

Subsurface Mineral Rights:

No information on subsurface mineral rights ownership was found in the EPA/AUM Database.

Claim and operator information:

The mine site surface land status is classified as Tribal Trust Land. Historical documents showed the operator of the mine as Capitol Uranium Co. in 1957, and Capitol Seaboard Corp. from 1957 to 1958. No other historical ownership / lease information was identified in the EPA/AUM database.

Number of residential structures within 200 feet of mine: None**Estimated volume of mine waste onsite:** None

Part II Summary of radiological readings

Highest gamma radiation measurement:

104,480 counts per minute (cpm)

Describe any other radiological measurements:

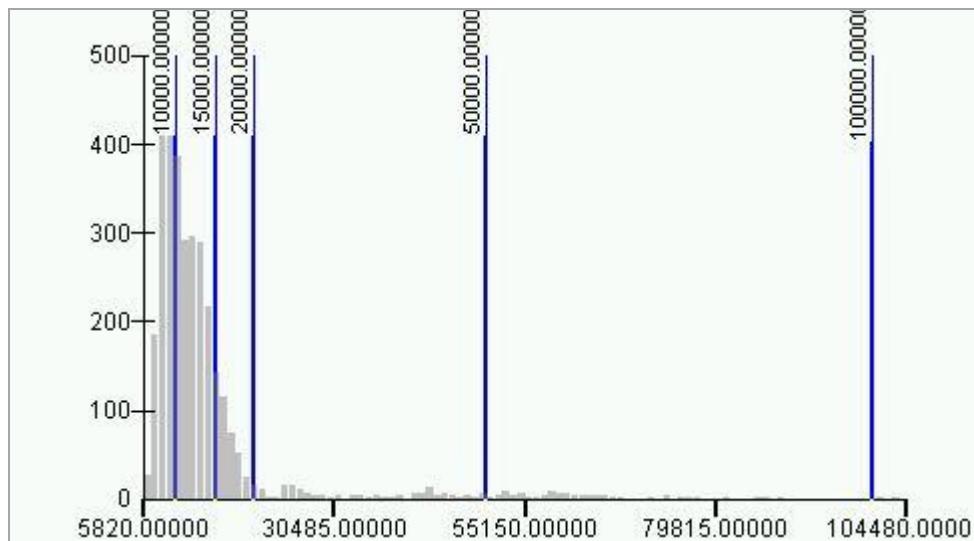
A total of 3,302 gamma radiation measurements were collected from the mine site, ranging from 5,820 cpm to 104,480 cpm. The measurements are represented in Figures 1 and 2.

Background Locations
#1 9,634 cpm

Average background = 9,634 cpm

Distribution Chart and Statistics:

The following chart and statistics were generated by ESRI ArcGIS 9.3.1, and show the general distribution of the site gamma radiation measurements. The horizontal X axis represents the gamma radiation reading levels in cpm (lowest levels to the left). The vertical Y axis represents the frequency of each gamma radiation level.



Count:	3302
Minimum:	5820.00000
Maximum:	104480.00000
Sum:	48578832.00000
Mean:	14711.94185
Median:	11339.00000
Standard Deviation:	12438.75948

Part III Status of Reclamation and Mine Waste

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed : Yes Waste Pile onsite : No

NAMLRP Project Number: NA-0910

NAMLRP Mine features: 1 Portal, 1 Prospect

The following information was obtained from field observations collected during the 2010 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits

Adit in the south facing, backfilled

Waste Piles

None

Pits

Possible excavation pit

Shafts

None

Other Debris and Mine Features

Diversion structure above adit leading towards underground workings; road from adit leads to possible excavation pit

Part IV

Site observations and Environs

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None

200 feet to 0.25 mile: None

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None

200 feet to 0.25 mile: None

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None

0.25 miles to 4 miles: None

Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None

Known Site History: include information from interviews with Chapter officials and residents. Note information on mine ownership, type of mining operation, period of operation, known amount of production, and any other information as provided.

George Simpson 1 Incline mine consists of an area of 17,843.06 m². The mine was identified as being operational from 1957 to 1958. Historical documents showed the operator of the mine as Capitol Uranium Co. in 1957, and Capitol Seaboard Corp. from 1957 to 1958. While operational, the mine had a total reported production volume of 2,000 tons. No other historical information or any additional ownership / lease information was identified in the EPA/AUM database.

Part V Response Action Summary

Site Name(s): George Simpson 1 Incline

Chapter: Sweetwater

Decision Criteria

Is there an unreclaimed waste pile at the site? No

At what distance from the waste pile is the nearest residential structure located? None

At what distances from the waste pile are there potential drinking water sources? None

Is there a reclamation cap or sealed adit in place at the site? Yes

Is the cap/seal functionally intact? Yes

Is the cap/seal sufficiently degraded to create a concern about releases? No

At what distance from the cap/seal is the nearest domestic structure located? None

At what distance from the cap/seal is the nearest domestic drinking water source? None

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

Backfilled adit; possible excavation pit

Part VI Photos



Photo 1. George Simpson 1 Incline site



Photo 2. George Simpson 1 Incline site



Photo 3. George Simpson 1 Incline site



Photo 4. George Simpson 1 Incline site



Photo 5. George Simpson 1 Incline site, diversion



Photo 6. George Simpson 1 Incline site, backfilled adit

Part VII Contacts Reports and InformationName: Stanley Edison (928) 871-6861Eugene Esplain (928) 871-7331Title or official role (if any) Navajo EPA Superfund ProgramAddress PO Box 2946, Window Rock, AZ 86515Information provided Lead Regulatory Agency

Name_____

Title or official role (if any) _____

Telephone number_____

Information provided_____

Name_____

Title or official role (if any) _____

Telephone number_____

Information provided_____

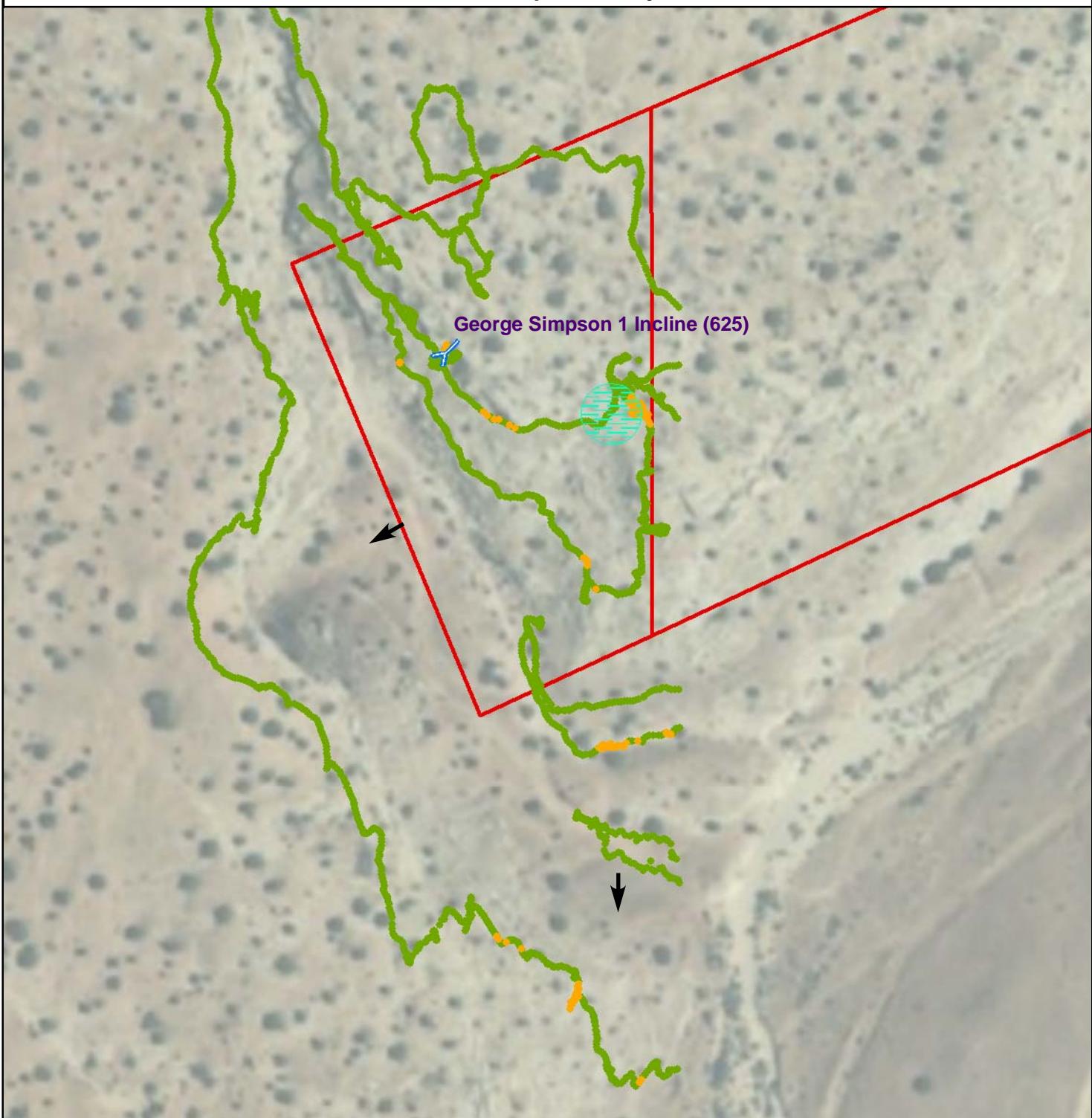
Name_____

Title or official role (if any) _____

Telephone number_____

Information provided_____

Figure 1 - Gamma Radiation Measurements, Above Two Times Background
George Simpson 1 Incline (625)
Sweetwater Chapter, Navajo Nation



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background

→ General Direction Down-Slope



Mine Claim Boundaries



Observed Reclamation Cap



Observed Adit

Gamma survey conducted 06/2010
Measured as counts per minute (cpm)

Average background = 9,634 cpm

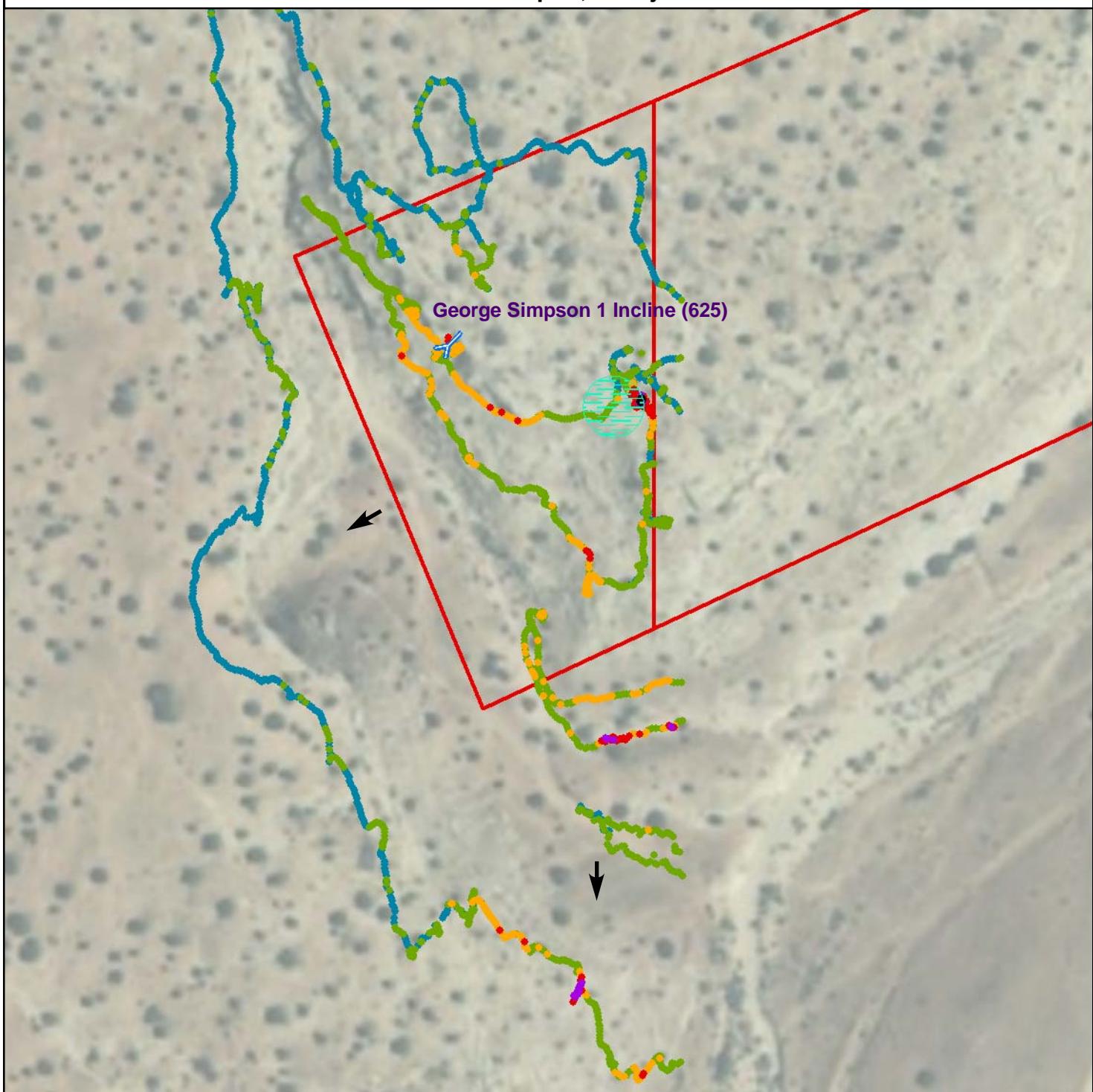


0 200 Feet



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Figure 2 - Gamma Radiation Measurements
George Simpson 1 Incline (625)
Sweetwater Chapter, Navajo Nation



Legend

Gamma Radiation Measurements

- 0 - 10,000
- 10,000 - 15,000
- 15,000 - 20,000
- 20,000 - 50,000
- 50,000 - 100,000
- > 100,000

→ General Direction Down-Slope



Mine Claim Boundaries



Observed Reclamation Cap



Observed Adit

Gamma survey conducted 06/2010
Measured as counts per minute (cpm)

Average background 9,634 cpm



0 200 Feet



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